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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/023,196	12/18/2001	Antonius Hendricus Maria Holtslag	NL000736	3300

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EXAMINER

LEWIS, DAVID LEE

ART UNIT PAPER NUMBER

2673

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/023,196

Applicant(s)

HOLTSLAG ET AL.

Examiner

David L Lewis

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 November 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. **Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kojima et al. (6724356).**
2. **As in claim 1, Kojima et al. teaches of a matrix display device, figure 6, comprising a plurality of light emitting elements, column 6 lines 12-15, drive means arranged for sub-field addressing of the light emitting elements, figure 6 item 24, determining means, for determining a display load of the device, figure figure 6 item 21, column 6 lines 32-44, and for comparing the display load of the device with a threshold value, column 6 lines 45-55, and control means, for dynamically reducing a number of sub-fields available for display of an image responsive to said determined display load being below the threshold value, figure 6 item 25, column 3 lines 60-67, column 6 lines 32-55.**
3. **As in claim 2, Kojima et al. teaches of wherein the drive means comprises a subfield converter, figure 6 item 24, and a matrix display drive means, coupled to the subfield converter, figure 6 items 15; both the subfield converter and the determining means are receiving an incoming video signal, figure 6 item 11 (external input signal), column 5 lines 34-35, figure 6 items 11 and 12; the determining means comprises means for providing information about the display load to the control means,**

column 6 lines 35-55; the control means is coupled to the subfield converter for dynamically varying the number of subfields available to display the image, **column 6 lines 45-59;** and the matrix display drive means are coupled to the light emitting elements, **figure 6 item 15, column 6 lines 13-15.**

4. **As in claim 3, Kojima et al.** teaches of a comprising means for applying partial line doubling and being coupled to the control means to receive information related to the display load and coupled to the matrix display drive means, to apply partial line doubling responsive to said display load being determined to be below a threshold value, column 6 lines 45-59. **As in claim 4, Kojima et al.** teaches of comprising means for applying dithering and being coupled to the control means to receive information related to the display load and coupled to the matrix display drive means for applying dithering, responsive to said display load being determined to be below a threshold value, column 6 lines 45-59.. **As in claim 5, Kojima et al.** teaches of and including means for applying partial line doubling responsive to the said display load being determined to be below a threshold value, column 6 lines 45-59. **As in claim 6, Kojima et al** teaches of a; and including means for applying dithering, responsive to the said display load being determined to be below a threshold value, column 6 lines 45-59. **As in claim 7, Kojima et al** teaches of a, and determining means comprising processor means for continuously monitoring the display load, figure 6 item 21, column 6 lines 30-63. **As in claims 8-13, Kojima et al** teaches of said control means, figure 6 item 21, performing luminance and load factor based calculations as claimed, figure 7, column 7 lines 19-49. **As in claim 15, Kojima et al.** teaches of a display apparatus arranged for receiving a video signal and for processing the signal so as to display an image determined by the signal, figures 1 and 6, column 6 lines 13-15, the image determining a display load within the apparatus, column 6 lines 33-55, and the apparatus having means for receiving a power supply having regard to the display load, figure 6 item 14.

5. **As in claim 14, Kojima et al. teaches** of a method of controlling light output from a matrix display device employing sub-field addressing and comprising

determining the display load of the device, **figure 6 item 21, column 6 lines 32-55**, comparing the display load of the device with a threshold value, **column 6 lines 32-55**, and dynamically reducing the number of subfields available for display of an image responsive to said display load being determined to be below the threshold value, **column 3 lines 60-67, column 6 lines 32-55**.

6. **Claims 1, 4, and 14 are rejected under 35 U.S.C. 102(a) as being anticipated by Onodera et al. (6061040).**

7. **As in claim 1, Onodera et al. teaches of a matrix display device, figure 4**, comprising a plurality of light emitting elements, **figure 4 item 16**, drive means arranged for sub-field addressing of the light emitting elements, **figure 7 item 14**, determining means, for determining a display load of the device, **figure 7 item 22**, and for comparing the display load of the device with a threshold value, **column 7 lines 25-40**, and control means, for dynamically reducing a number of sub-fields available for display of an image responsive to said determined display load being below the threshold value, **figure 7 item 26**.

8. **As in claim 4, Onodera et al. teaches of comprising means for applying dithering and being coupled to the control means to receive information related to the display load and coupled to the matrix display drive means for applying dithering, responsive to said display load being determined to be below a threshold value, column 11 lines 1-3.**

9. **As in claim 14, Onodera et al. teaches of a method of controlling light output from a matrix display device employing sub-field addressing and comprising determining the display load of the device, figure 7 item 22, column 7 lines 25-40**, comparing the display load of the device with a threshold value, **column 7 lines 25-40**, and dynamically reducing the number of subfields available for display of an image responsive to said display load being determined to be below the threshold value, **column 8 lines 40-65**.

Response to Arguments

10. Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection. See the rejection in view of Kojima et al. and Onodera et al.

Conclusion

11. Prior art cited as pertinent art but not used, Yashiro (6288495).

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L Lewis whose telephone number is 703 306-3026. The examiner can normally be reached on M, T, TH, F. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Bipin Shalwala can be reached on 703 305-4938. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-4700.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:


(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to

Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

March 8, 2005


BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600